IN THE CLAIMS:

The claims read as follows:

Claims 1-12 – Canceled.

13. (Previously Presented) A device for modifying a fluid moving through a vessel prior to the ejection of the fluid from the vessel into the body of a patient, the device comprising:

a first lumen;

a second lumen;

an exit orifice;

a mixing chamber positioned within the first lumen and the mixing chamber in communication with the exit orifice,

the mixing chamber having a passageway,

the passageway fluidly connecting the mixing chamber to the second lumen,

the passageway containing a selectively permeable membrane positioned to selectively pass compounds to the passageway.

14. (Previously Presented) The device of claim 13 further comprising:

a third lumen, the third lumen in fluid communication with the mixing chamber, and the mixing chamber in direct contact with the exit orifice.

15. (Previously Presented) The device of claim 13 further comprising:

a vacuum source in fluid communication with the second lumen; and,

a resin positioned within the second lumen, the resin adapted to trap and retain compounds passing through the selectively permeable membrane and resident within the second lumen.

16. (Previously Presented) The device of claim 13 wherein the selectively permeable membrane is adapted to extract a solvent from fluid in contact with the selectively permeable membrane and wherein the mixing chamber is in direct contact with the exit orifice.

17. (Original) The device of claim 16 wherein the fluid is a therapeutic.

18. (Previously Presented) A device for modifying a fluid moving through a vessel prior to the ejection of the fluid from the vessel comprising:

a first lumen;
a second lumen;
an exit orifice; and
a mixing chamber in communication with the first lumen and the exit orifice,
the mixing chamber having a passageway,
the passageway fluidly connecting the mixing chamber to the second lumen,
the passageway containing a selectively permeable membrane positioned to selectively pass compounds to the passageway
wherein the first lumen and the second lumen are concentric about one another and share a longitudinal axis.

Claims 19-23 – Canceled.

24. (Previously Presented) The device of claim 13 wherein the material comprising the first lumen includes a metal.

25. (Previously Presented) The device of claim 13 wherein the selectively permeable membrane comprises a polycarbonate.

26. (Previously Presented) The device of claim 13 wherein the selectively permeable membrane comprises glass microfibers.

27. (Previously Presented) The device of claim 13 wherein the mixing chamber is sized to fit within an internal lumen of the body of the patient.